Cementing

**HR®-25L**

**Cement Retarder**

HR®-25L high-temperature retarder/intensifier is a stand-alone retarder that can be used to gel cement. However, this product was primarily designed for intensifying common retarders.

**Applications**

HR-25L retarder/intensifier can be used at bottomhole circulating temperatures (BHCTs) between 200° and 400+°F. Normal retarder/intensifier concentrations are 0.5 to 2.0%.

**Benefits**

HR-25L retarder/intensifier can provide the following benefits:

- This product is highly soluble in water. Consequently, it exhibits more uniform thickening times in the laboratory and has less effect on cement compressive-strength development, especially at the top of a long cement column.
- HR-25L retarder/intensifier can be added directly to the mixing water, or it can be dry-blended.
- This product interacts well with other cement additives.
- This retarder/intensifier helps extend pumping times.
- It allows improved displacement rates at steady pressures.
- HR-25L retarder/intensifier allows operators to better predict thickening times.
- The Environmental Protection Agency (EPA) does not classify HR-25L retarder/intensifier as a hazardous waste.

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### HR®-25L Retarder/Intensifier—Product Specifications

<table>
<thead>
<tr>
<th>Part No.</th>
<th>100012240</th>
<th>Viscosity (cps@75°F)</th>
<th>10</th>
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<tbody>
<tr>
<td>Form</td>
<td>Clear yellow liquid</td>
<td>Pour Point</td>
<td>32°F</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.20</td>
<td>Freeze Point</td>
<td>32°F</td>
</tr>
<tr>
<td>Density</td>
<td>10.01 lb/gal</td>
<td>Stable to Freeze Thaw</td>
<td>Yes</td>
</tr>
<tr>
<td>Activity (wt%)</td>
<td>40</td>
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<td></td>
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</tbody>
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